

MARYLAND PORT ADMINISTRATION

Port of Baltimore

presented to
Rio Delegation Visit
Chesapeake Bay Study Tour

July 29, 2013



Presentation Overview

- **Port Overview**
- **Economic Impact**
- **Environmental and Dredging Efforts**
- **Outreach and Education Activities**



Port Overview



Port of Baltimore Public and Private Terminals



- D** Consolidation Coal Sales Co. Marine Terminal
- E** Intermodal Container Transfer Facility (I.C.T.F.)
- F** Seagirt Marine Terminal
- G** Dundalk Marine Terminal
- H** Chesapeake Bulk Stevedores
- I** Hawkins Point Terminal
- J** CSX Coal & Ore Piers/Curtis Bay Co. Bayside Coal Pier
- K** Chesapeake Terminal
- L** ST Services
- M** Atlantic Terminal
- N** Fairfield Auto Terminal
- O** Masonville Marine Terminal
- P** South Locust Point Marine Terminal
- Q** North Locust Point Marine Terminal
- R** Baltimore Metal & Commodities Terminal
- S** U.S. Gypsum
- T** National Gypsum



Private Terminals (29)

Public Terminals (7)

- A** World Trade Center Baltimore
- B** Clinton Street Marine Terminal
- C** Rukert Terminals Corporation



The Port of Baltimore is a complex mix of Private and Public terminals....handling diverse bulk & general cargoes.



Forest Products



Sugar



Salt &

Fertilizers



Autos



Coal & Iron Ore



Forest Products



Containers

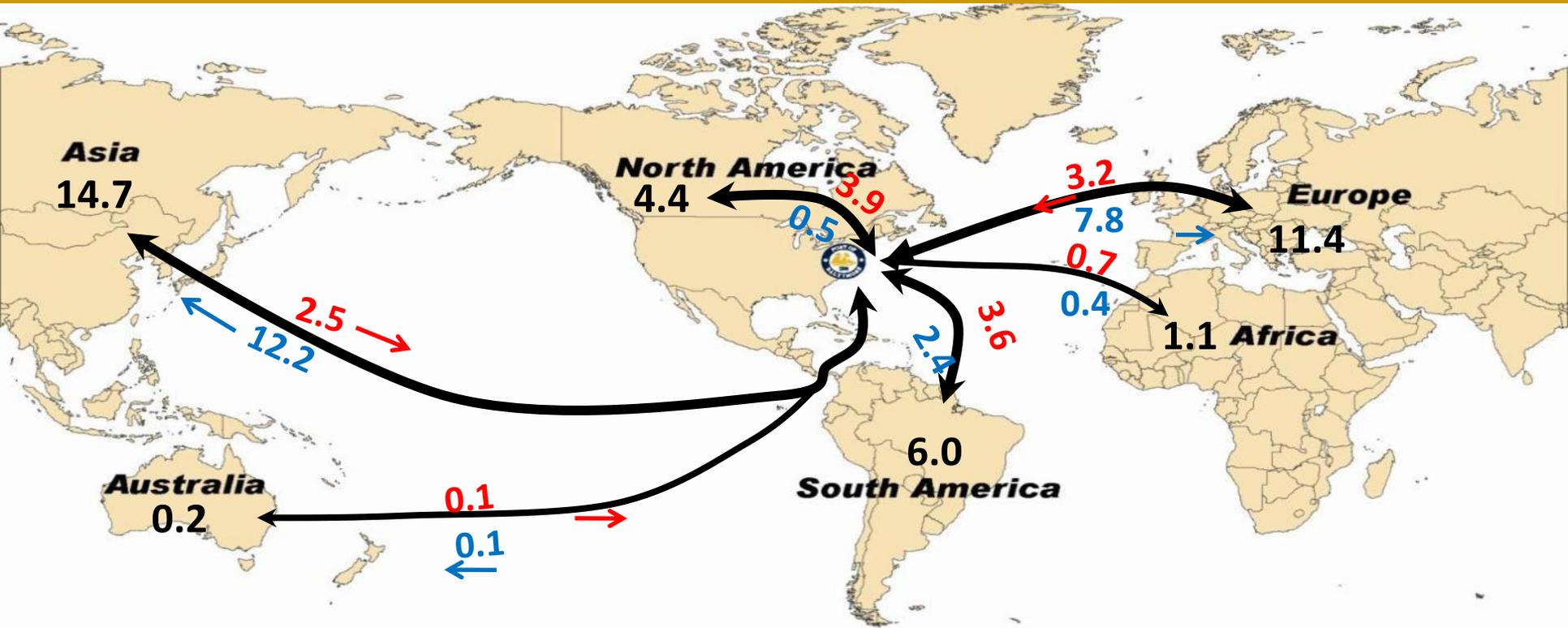


Construction Farming

Mining

The Port has global reach, connecting many suppliers and markets worldwide.

POB's International Cargo in 2012 is estimated to be between 36 and 37 Million Tons.



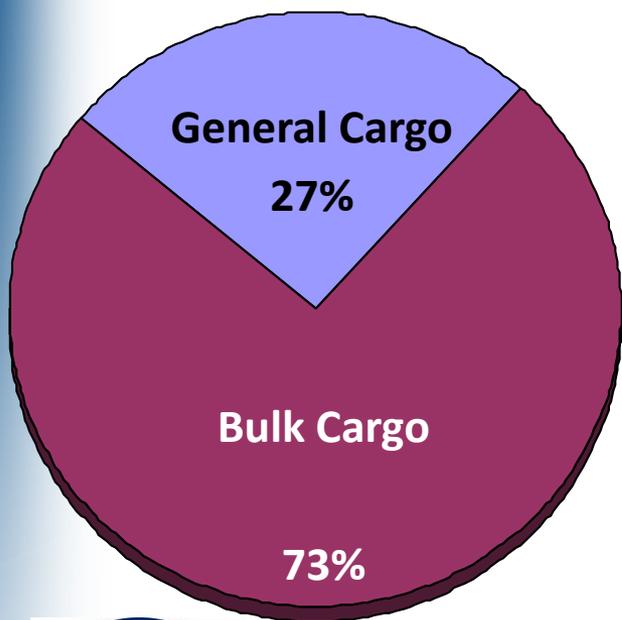
POB est. Tons (Millions)

Imports = Red (14 M)

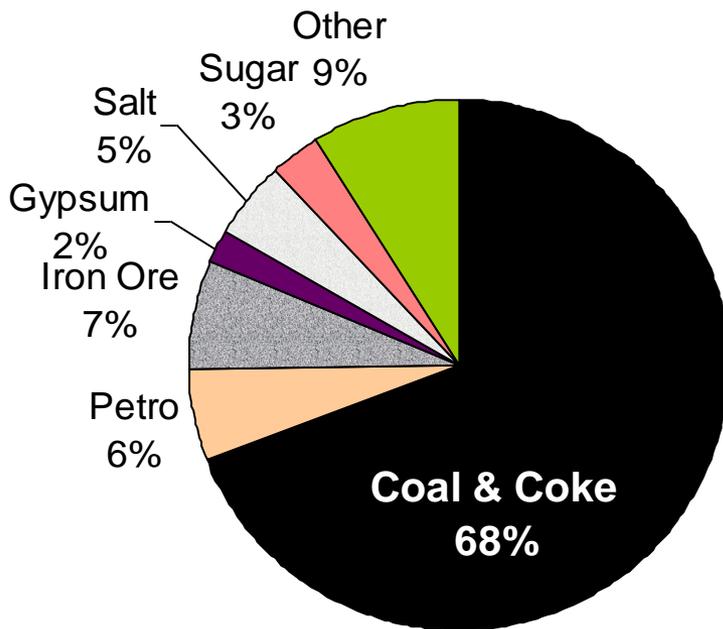
Exports = Blue (23 M)

Most of the Port's tonnage is Bulk cargoes, but most of the value is in General cargoes. MPA handles the majority of General cargo.

**2012 est. Foreign Cargo
36 - 37 Million Tons**



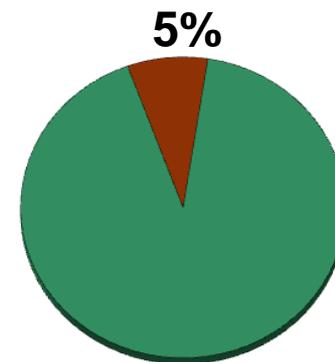
**Est. Bulk Cargo
27 Million Tons**



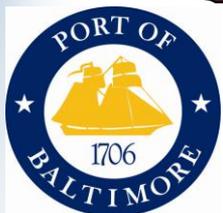
**Mostly Private
Terminals**

**Est. General Cargo
10 Million Tons**

Private Facilities

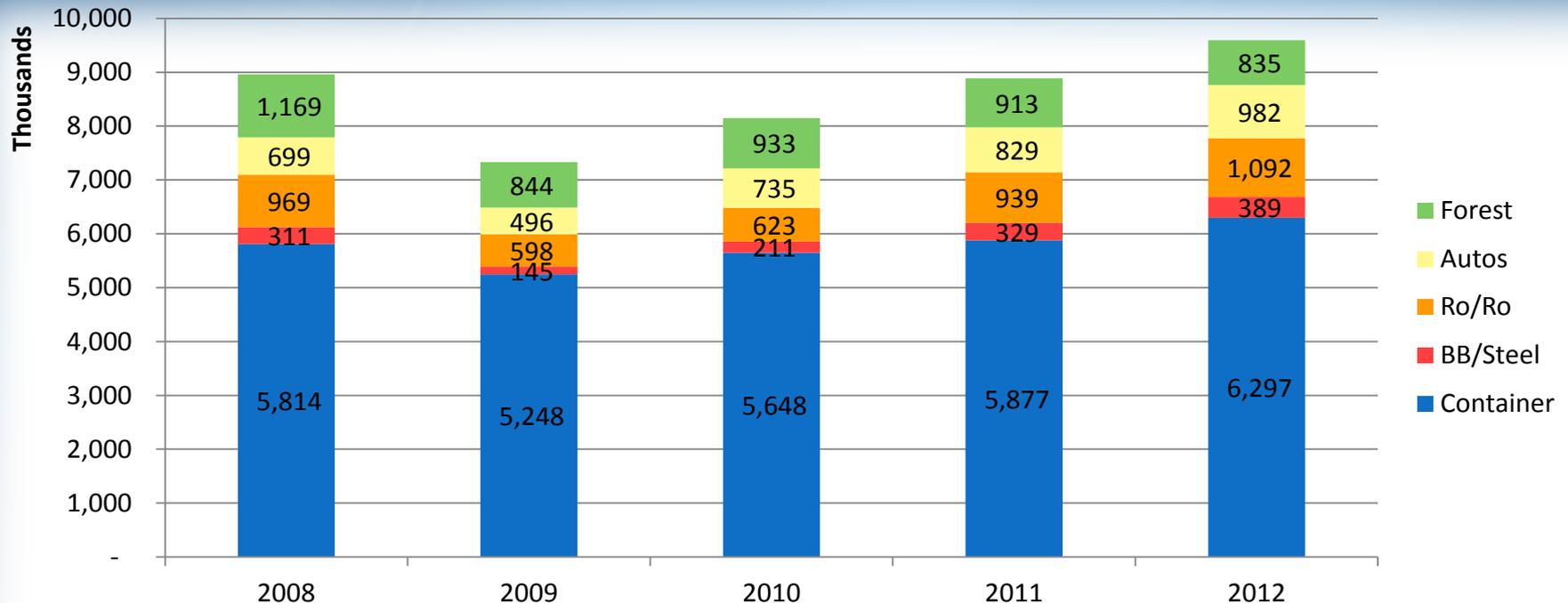


**95%
Public (MPA)
Terminals**



POB Foreign Cargo is estimated based on 11 months data.

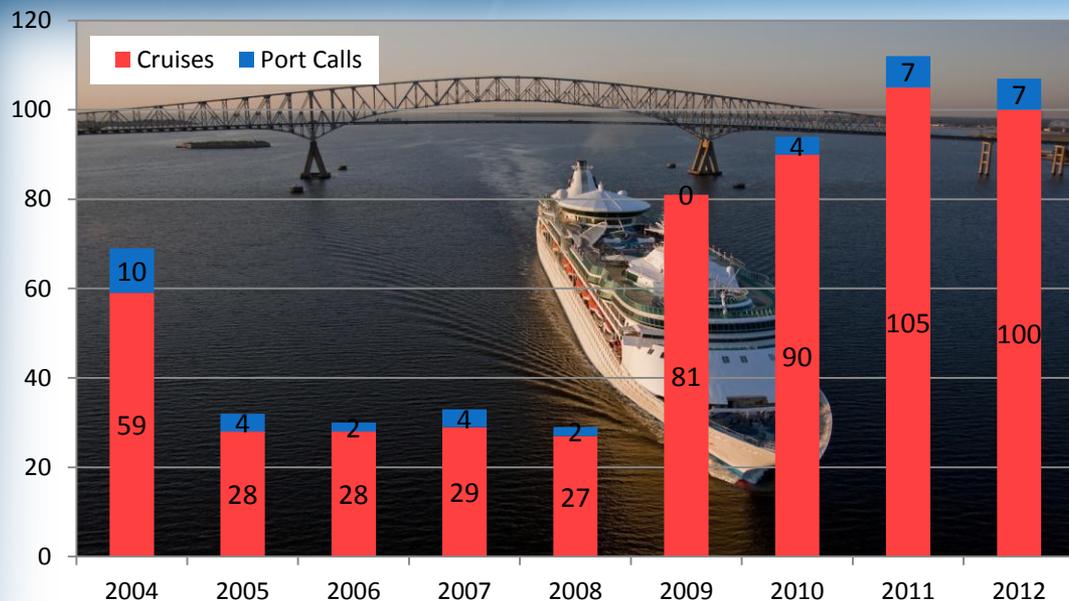
MPA General Cargo Tonnage 2008 – 2012



- MPA general cargo tonnage in 2012 totaled 9.6M tons, which shattered our previous yearly record of nearly 9M tons set in 2008 before the Recession.
- MPA's cargo volumes for 2012 were 6.6% greater than in 2008.
- In addition, the MPA set annual tonnage records for Automobiles, Ro/Ro and Containers.



Cruise records were attained in 2009, 2010 and again in 2011. The port saw over 100 cruise ships visit in 2012.



Economic Impact



Economic Impact - Port of Baltimore Cargo and Cruise Activity

- 40,040 jobs are generated:
 - 14,630 direct jobs
 - 14,470 induced jobs
 - 10,940 indirect jobs
- \$3.0 billion in wages and salaries
- \$304 million state and local taxes



Although the POB is not a single employer, it would rank #9 (above Aberdeen Proving Ground) as a top employer in Maryland.

Statewide Employers in Maryland, Top 20 - 2010

	Employer	Employees	Product / Service
1	Fort George G. Meade	41,000	Military installation/intelligence
2	University System of Maryland	35,803	Higher education
3	Johns Hopkins University	27,000	Higher education
4	Johns Hopkins Hospital & Health System	20,273	Hospitals; health services
5	National Institutes of Health	17,842	Federal agency
6	Walmart	17,715	Consumer goods
7	University of Maryland Medical System	15,000	Hospitals; health services
8	MedStar Health	14,867	Hospitals; health services
9	Aberdeen Proving Ground	13,984	Military installation
10	Giant Food	13,403	Groceries
11	U.S. Social Security Administration	13,000	Federal agency
12	Verizon Maryland	11,253	Communications services
13	Naval Air Station Patuxent River	10,965	Military Installation
14	Northrop Grumman	10,800	Electronics systems
15	Lockheed Martin	9,245	Aerospace and electronics
16	Marriott International	9,170	Food and lodging services
17	Adventist HealthCare	8,572	Hospitals; health services
18	National Naval Medical Center	8,108	Hospital; health services
19	Andrews Naval Air Facility Washington	8,057	Military installation
20	Constellation energy	7,501	Energy services



Port of Baltimore
(14,630 jobs)



Environmental and Dredging Efforts



Port of Baltimore Channel System

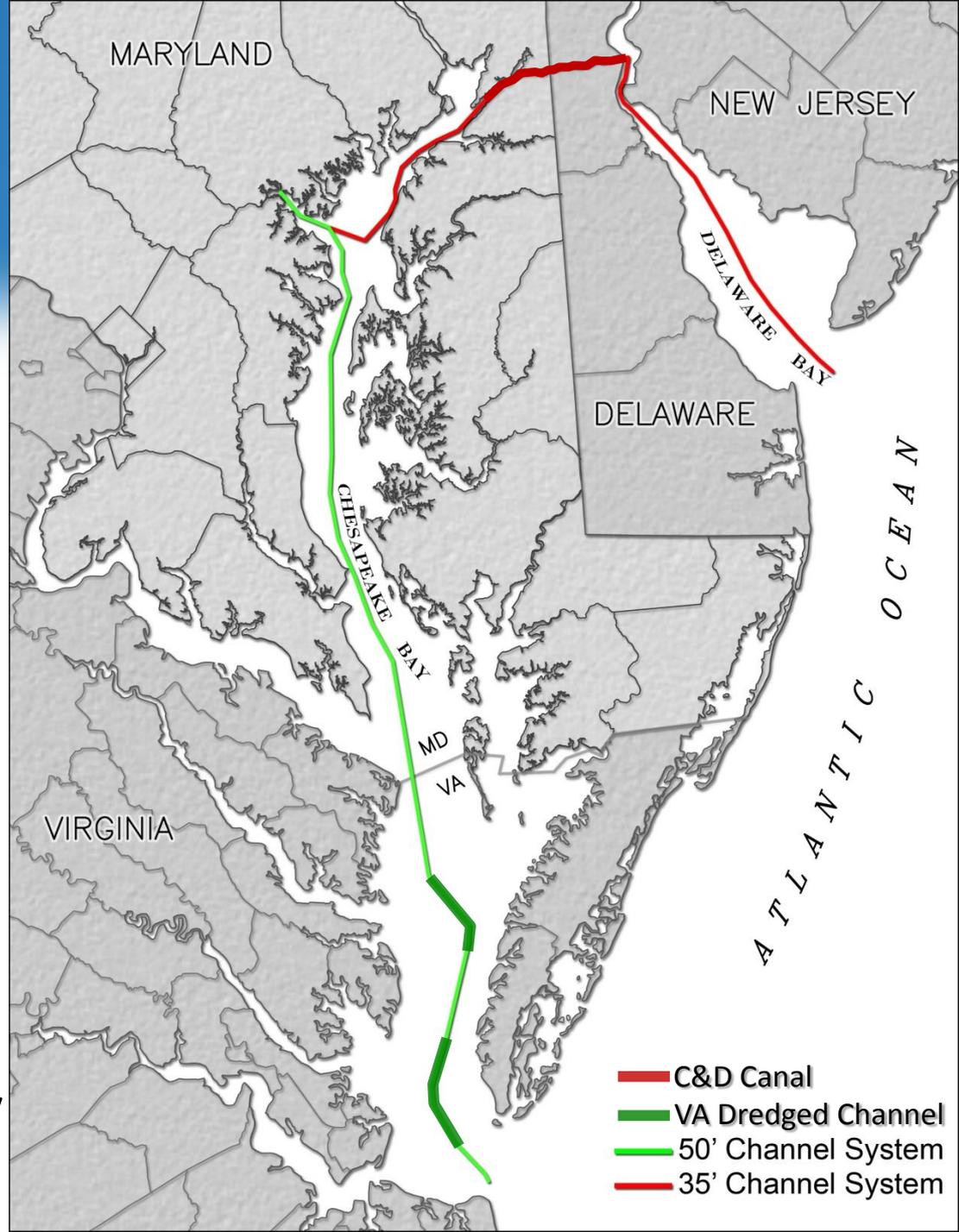
- >300 miles of channel
- 135 miles dredged
- 35' access from north
- 50' access from south

Long-Term Average Annual Dredging Volumes

C&D Canal	0.04 +/- Mcy
C&D Canal Approaches	1.2 Mcy
MD Bay Channels	2.0 Mcy
Harbor Channels	1.5 Mcy
VA Bay Channels	0.5 Mcy

Total 5.24 Mcy

20-yr demand 104.8 Mcy



- C&D Canal
- VA Dredged Channel
- 50' Channel System
- 35' Channel System

Dredging Challenge

- The Port of Baltimore is thriving because of its Reliable navigational system.
- As ships get larger, a Dependable channel system is critical to continued success
-Big Ships need Deep Water and wider channels.
- All less expensive options have been exhausted and the future challenge is to continue the Reliability of the Port's navigation system with a significant decline in Federal funding.
- Maintaining a cost-effective, environmentally-sensitive, and community-supported dredging program is an ongoing challenge.



Maryland State Dredged Material Management Program

- Used to establish long-term dredging placement plans
- Relies on input from stakeholders



DMMP Public Involvement

- Public involved in planning and implementation of Dredged Material Containment Facility and mitigation and community enhancement projects
- Categories of involved public:
 - Agency representatives
 - Local government
 - Defined groups and organizations – environmental, community, business, etc.
 - Educational institutions
 - Private citizens



Public Involvement Methods

- Port Industry and Business Involvement
- Science and Technical Working Group
 - Bay Enhancement Work Group
 - Joint Evaluation Committee
- Ongoing coordination with Public involvement through:
 - Harbor Team meetings
 - Public meetings - Formal and informal
 - Various Citizens Advisory Committee Meetings
- Regulatory Agencies involvement through:
 - Bay Enhancement Work Group
 - Management Committee
 - Executive Committee



Dredged Material Management is accomplished through several means

- Beneficial Reuse – habitat and wetland creation
- Upland Containment
- Island Restoration – perhaps with recreational aspects
- Upland Creation
- Innovative reuse being explored



Poplar Island Restoration



Poplar Island was 1,100+ acres in the mid-1800s, but eroded to 3 acres by the 1990s before being restored by MPA and Corps.

Masonville Dredged Material Containment Facility



Creating Aquatic Habitat



**Poplar Island
Restoration**



Creating Terrestrial Habitat



Poplar Island



Hart/Miller Island



Hart/Miller Island



Poplar Island



**Ft. McHenry
Wetlands Restoration**



Creating Wetland Habitat



**Hart/Miller Island
South cell**



Swan Creek



Poplar Island



**Hart/Miller Island
South cell**



Swan Creek



Maryland Port Administration

Green Port Initiatives

Environmental Initiatives:

- Port/EPA/MDE Environmental Compliance Workshops
- Remediate Chromium Ore Processing Residue (COPR) at Dundalk
- Environmental Management System Certified ISO 14001:2004
- Unique Mobile Ballast Water Test Platform
- Diesel Emissions Reduction Program
- Stormwater and TMDL's
- Schoolyard greening



Outreach and Education Activities



Port of Baltimore Outreach Program Adult and Children



Teacher Training - Hands-on activities at a DMCF.



In-School presentations:
Terrapins in the classroom



Planting activity at a dredged material containment site



Port employees cleaned up tons of trash and debris in local City park



Curriculum Development - Students learn about port operations

Port of Baltimore's Bottom line:

- The Port links Maryland and the Mid-Atlantic region to the global marketplace.
- The Port stimulates the flow of waterborne commerce through the State of Maryland in the best interested of the citizens.
- The Port is a large economic impact on the State of Maryland and sustains jobs.
- The Port is located in a unique place (the Bay) and we know that we impact it and it impacts us.
- The Port incorporates environmental sustainability into our work, both in large (poplar island) and small (floating wetlands in the harbor) ways.
- The Port supports and implements the Chesapeake Bay environmental initiatives.





POB is an Environmental Leader

- ❑ Committed to sustainability which includes:
 - Maintaining and protecting the environment
 - Community outreach and partnerships
 - Fostering and maintaining successful business environment

- ❑ A true Port of Baltimore effort, not just MPA

